

Claims

1. A centering device, in particular for a tracer-type measuring instrument, comprising:
5 - an instrument carrier (3) defining an instrument axis (7),
 - a carrying shank (41) defining a shank axis (43),
 - a centering holder (45) holding the instrument
10 carrier (3), with the instrument axis (7) parallel to the shank axis, radially movably to the latter, but so as to be capable of being fixed to the carrying shank (41),
 characterized in that
15 the centering holder (45) is designed as a parallelogram guide with a parallelogram-link region (59), or a plurality of these regions, distributed about the shank axis (43) and the instrument axis (7) and extending along these axes
20 (7, 43).
2. The centering device as claimed in claim 1, characterized in that the parallelogram-link region is formed by a circular-cylindrical sleeve
25 portion (59) axially parallel to the shank axis (43) and to the instrument axis (7).
3. The centering device as claimed in claim 2, characterized in that the sleeve portion (59) is
30 designed with a closed wall in the circumferential direction.
4. The centering device as claimed in claim 2 or 3, characterized in that the centering holder (45)
35 comprises a connecting flange (47) which surrounds the shank axis (43) and the instrument axis (7) and connects the carrying shank (41) to the instrument carrier (3) and which has, on its sides facing axially away from one another, annular

grooves (55, 57) which are concentric to one another, overlap one another axially and delimit the sleeve portion (59) radially between them.

- 5 5. The centering device as claimed in one of claims 1
to 4, characterized in that the parallelogram-link
region is connected at its one axial end to a
first annular portion (61) of the centering holder
(45) and at its other axial end to a second
10 annular portion (63, 65) of the centering holder
(45), and in that one (63, 65) of these annular
portions carries at least one setscrew (69) which
is supported radially in the region of the other
(61) of these annular portions.
- 15 6. The centering device as claimed in claim 5,
characterized in that one annular portion (63, 65)
carries at least three setscrews (69) distributed
in the circumferential direction.
- 20 7. The centering device as claimed in claim 5 or 6,
characterized in that the two annular portions
(61, 63, 65) are arranged coaxially one in the
other, and the outer annular portion (63, 65)
25 carries the at least one setscrew (69) in a
radially screwable manner.
- 30 8. The centering device as claimed in one of claims 1
to 7, characterized in that the parallelogram-link
region (59) is produced with its axial ends
integrally in one piece with the carrying shank
(41) and/or with the instrument carrier (3).